

What is claimed is:

1. A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state.

2. A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state, the tone output controller causing tone output only from the call tone output unit when a call arrives in the unfolded state of the hinge.

3. A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded,

comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state, the tone output controller causing tone output only from the call tone output unit when a call arrives in the unfolded state of the hinge and continuing to cause the tone output from the call tone output unit when the hinge is folded from the unfolded state.

4. A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state, the tone output controller causing tone output only from the call tone output unit when a call arrives in the unfolded state of the hinge, continuing to cause the tone output from the call tone output unit when the hinge is

folded from the unfolded state and causing tone output from the receiver when the hinge is folded from the unfolded state.

~~5.~~ A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state, the tone output controller causing the receiver to output an operation confirmation tone inputted from a keyboard in the unfolded state of the hinge.

~~6.~~ A call tone output system for a foldable portable telephone set having a hinge for being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the hinge; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state,

the tone output controller causing the output of the operation confirmation tone inputted from an external keyboard from the call tone output unit in the folded state of the hinge and from the receiver in the unfolded state of the hinge.

7. The call tone output system for a foldable portable telephone set according to one of claims 1, 3 and 6, wherein the tone output controller causes the output from the receiver at the time of the tone output from the call tone output unit.

8. The call tone output controller for a foldable portable telephone set according to one of claims 1 and 4 to 6, wherein the tone output controller causes tone output from the call tone output unit at the time of the tone output from the receiver.

9. A call tone output system for a foldable portable telephone set having a hinge to be unfolded and folded, comprising:

a receiver provided on the inner side of the foldable portable telephone set and including a loudspeaker for outputting a reception tone;

a call tone output unit provided on the outer side of the foldable portable telephone set and including a loudspeaker for outputting a call tone at the time of a call arrival;

a tone signal generator for outputting a tone signal to the receiver and also to the call tone output unit;

a detector for detecting the unfolding and folding of the hinge;

a receiver loudspeaker drive amplifier for driving the loudspeaker in the receiver;

a call tone output unit loudspeaker drive amplifier for driving the loudspeaker in the call tone output unit;

a receiver switch for turning on and off the output of the tone signal from the tone signal generator to the receiver;

call tone output unit switch for turning on and off the output of the tone signal from the tone signal generator to the call tone output unit;

a receiver power supply switch for connecting the receiver loudspeaker drive amplifier to a power supply therefor;

a call tone output unit power supply switch for connecting the call tone output unit loudspeaker drive amplifier to a power supply therefor; and

a switch controller for controlling the receiver switch, the call tone output unit switch, the receiver power supply switch and the call tone output unit power supply switching and causing tone output from the call tone output unit upon arrival of a call in the folded state of the hinge and from the receiver when the hinge is unfolded from the folded state.

10. A call tone output method for a foldable portable telephone set having a hinge to be unfolded and folded, comprising:

a step of detecting the unfolding and folding of the hinge; and

a step of causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the hinge and from a receiver, which outputs a reception tone, when the hinge is unfolded from the folded state.

11. A portable telephone set having two member bodies capable of being unfolded and folded, comprising:

a detector for detecting the unfolding and folding of the two member bodies; and

a tone output controller for causing the tone output from a call tone output unit, which outputs a call tone upon a call arrival, when a call arrives in the folded state of the two member bodies and from a receiver, which outputs a reception tone, when the two member bodies are unfolded from the folded state.

12. The portable telephone set according to claim 11, wherein the tone output controller causes tone output only from the call tone output unit when a call arrives in the unfolded state of the two member bodies.

*add 92* →